



results of BLAST

BLASTP 2.2.5 [Nov-16-2002]

Reference:

Altschul, Stephen F., Thomas L. Madden, Alejandro A. Schäffer, Jinghui Zhang, Zheng Zhang, Webb Miller, and David J. Lipman (1997), "Gapped BLAST and PSI-BLAST: a new generation of protein database search programs", Nucleic Acids Res. 25:3389-3402.

RID: 1045161355-05206-4482

Query=

(30 letters)

Database: All non-redundant GenBank CDS translations+PDB+SwissProt+PIR+PRF

1,336,920 sequences; 428,153,035 total letters

If you have any problems or questions with the results of this search please refer to the [BLAST FAQs](#)

[Taxonomy reports](#)

Distribution of 1 Blast Hits on the Query Sequence

Mouse-over to show defline and scores. Click to show alignments

1.14706

0

Sequences producing significant alignments:

Score E
(bits) Value

gi|4378804|gb|AAD19696.1| hemoglobin beta chain [Homo sapiens] 31 4.2

Alignments

Get selected sequences

Select all

Deselect all

☐ >gi|4378804|gb|AAD19696.1| hemoglobin beta chain [Homo sapiens]
Length = 147

Score = 31.2 bits (69), Expect = 4.2

Identities = 12/13 (92%), Positives = 12/13 (92%)

Query: 9 RFLVVYPWTQRFL 21

R LVVYPWTQRFL

Sbjct: 31 RLLVVYPWTQRFL 43 -Hbβ

Database: All non-redundant GenBank CDS
translations+PDB+SwissProt+PIR+PRF
Posted date: Feb 12, 2003 12:52 AM
Number of letters in database: 428,153,035
Number of sequences in database: 1,336,920



Lambda	K	H
0.336	0.147	0.586

Gapped

Lambda	K	H
0.267	0.0410	0.140

Matrix: BLOSUM62

Gap Penalties: Existence: 11, Extension: 1
Number of Hits to DB: 24,540,963
Number of Sequences: 1336920
Number of extensions: 393866
Number of successful extensions: 3075
Number of sequences better than 10.0: 1
Number of HSP's better than 10.0 without gapping: 1
Number of HSP's successfully gapped in prelim test: 0
Number of HSP's that attempted gapping in prelim test: 3072
Number of HSP's gapped (non-prelim): 3
length of query: 30
length of database: 428,153,035
effective HSP length: 6
effective length of query: 24
effective length of database: 420,131,515
effective search space: 10083156360
effective search space used: 10083156360
T: 11
A: 40
X1: 15 (7.3 bits)
X2: 38 (14.6 bits)
X3: 64 (24.7 bits)
S1: 39 (21.7 bits)
S2: 66 (30.0 bits)

PubMed Nucleotide Protein Genome Structure PMC Taxonomy OMIM Books

Search Protein ☒ for Go Clear

Limits Preview/Index History Clipboard Details

Display default ☒ Show: 20 ☒ Send to File Get Subsequence

☐ 1: AAD19696. hemoglobin beta c...[gi:4378804]

BLink, Domains, Links

LOCUS AAD19696 147 aa linear PRI 09-MAR-1999

DEFINITION hemoglobin beta chain [Homo sapiens].

ACCESSION AAD19696

VERSION AAD19696.1 GI:4378804

DBSOURCE locus AF117710 accession AF117710.1

KEYWORDS .

SOURCE Homo sapiens (human)

ORGANISM Homo sapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

REFERENCE 1 (residues 1 to 147)

AUTHORS Kutlar,F., Harbin,J., Brisco,J. and Kutlar,A.

TITLE Rapid detection of electrophoretically silent, unstable human hemoglobin 'Louisville', (Beta; Phe 42 Leu/TTT to CTT) by cDNA sequencing of mRNA

JOURNAL Unpublished

REFERENCE 2 (residues 1 to 147)

AUTHORS Kutlar,F., Harbin,J., Brisco,J. and Kutlar,A.

TITLE Direct Submission

JOURNAL Submitted (04-JAN-1999) Medicine, Medical College of Georgia, Laney Walker, AC-1000, Hemoglobin Lab., Augusta, GA 30912, USA

COMMENT Method: conceptual translation.

FEATURES

Location/Qualifiers

source 1..147

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/db_xref="taxon:9606"

/chromosome="11"

/map="11p15.5"

/cell_type="reticulocyte"

/tissue_type="whole blood"

/note="unstable hemoglobin had been separated from normal beta chain, by the reversed phase HPLC on a C4 column and eluted between the beta chain and alpha chain on the chromatogram"

Protein 1..147

/product="hemoglobin beta chain"

/name="unstable hemoglobin; hemoglobin 'Louisville'"

CDS 1..147

/gene="HBB"

/coded_by="AF117710.1:31..474"

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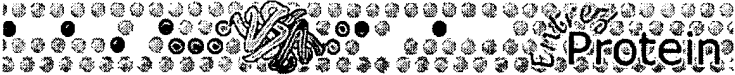
1 mvhltppeeks avtalwgkvn vdevggealg rllvvypwtg rflesfgdls tpdavmgnpk

61 vkahgkklvg afsdglahld nlkgtfatls elhcdklhvd penfrllgnv lvcvlahhfg

121 keftppvqaa yqkvvagvan alahkyh

//

Revised: August 5, 2002.

PubMed	Nucleotide	Protein	Genome	Structure	PMC	Taxonomy	OMIM	Books
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Search Protein ☒ for

☒ Show:

☐ 1: AAD19696. hemoglobin beta c...[gi:4378804]

[BLink](#), [Domains](#), [Links](#)

LOCUS AAD19696 147 aa linear PRI 09-MAR-1999
 DEFINITION hemoglobin beta chain [Homo sapiens].
 ACCESSION AAD19696
 VERSION AAD19696.1 GI:4378804
 DBSOURCE locus AF117710 accession AF117710.1
 KEYWORDS .
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 REFERENCE 1 (residues 1 to 147)
 AUTHORS Kutlar,F., Harbin,J., Brisco,J. and Kutlar,A.
 TITLE Rapid detection of electrophoretically silent, unstable human
 hemoglobin 'Louisville', (Beta; Phe 42 Leu/TTT to CTT) by cDNA
 sequencing of mRNA
 JOURNAL Unpublished
 REFERENCE 2 (residues 1 to 147)
 AUTHORS Kutlar,F., Harbin,J., Brisco,J. and Kutlar,A.
 TITLE Direct Submission
 JOURNAL Submitted (04-JAN-1999) Medicine, Medical College of Georgia, Laney
 Walker, AC-1000, Hemoglobin Lab., Augusta, GA 30912, USA
 COMMENT Method: conceptual translation.
 FEATURES
 source Location/Qualifiers
 1..147
 /organism="Homo sapiens"
 /db_xref="taxon:9606"
 /chromosome="11"
 /map="11p15.5"
 /cell_type="reticulocyte"
 /tissue_type="whole blood"
 /note="unstable hemoglobin had been separated from normal
 beta chain, by the reversed phase HPLC on a C4 column and
 eluted between the beta chain and alpha chain on the
 chromatogram"
Protein 1..147
 /product="hemoglobin beta chain"
 /name="unstable hemoglobin; hemoglobin 'Louisville'"
CDS 1..147
 /gene="HBB"
 /coded_by="AF117710.1:31..474"
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 61 vkahgkklvg afsdglahld nlkgtfatls elhcdklhvd penfrllgnv lvcvlahhfg
 121 keftppvqaa yqkvvagvan alahkyh
 //

Revised: August 5, 2002.

Connecting via Winsock to STN

Welcome to STN International! Enter x:x .

LOGINID:SSSPTA1647SXW

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

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NEWS	6	Apr 22	Records from IP.com available in CAPLUS, HCAPLUS, and ZCAPLUS
NEWS	7	Apr 22	Biosis Gene Names now available in TOXCENTER
NEWS	8	Apr 22	Federal Research in Progress (FEDRIP) now available
NEWS	9	Jun 03	New e-mail delivery for search results now available
NEWS	10	Jun 10	MEDLINE Reload
NEWS	11	Jun 10	PCTFULL has been reloaded
NEWS	12	Jul 02	FOREGE no longer contains STANDARDS file segment
NEWS	13	Jul 22	USAN to be reloaded July 28, 2002; saved answer sets no longer valid
NEWS	14	Jul 29	Enhanced polymer searching in REGISTRY
NEWS	15	Jul 30	NETFIRST to be removed from STN
NEWS	16	Aug 08	CANCERLIT reload
NEWS	17	Aug 08	PHARMAMarketLetter(PHARMAML) - new on STN
NEWS	18	Aug 08	NTIS has been reloaded and enhanced
NEWS	19	Aug 19	Aquatic Toxicity Information Retrieval (AQUIRE) now available on STN
NEWS	20	Aug 19	IFIPAT, IFICDB, and IFIUDB have been reloaded
NEWS	21	Aug 19	The MEDLINE file segment of TOXCENTER has been reloaded
NEWS	22	Aug 26	Sequence searching in REGISTRY enhanced
NEWS	23	Sep 03	JAPIO has been reloaded and enhanced
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NEWS	26	Oct 01	CASREACT Enriched with Reactions from 1907 to 1985
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NEWS	31	Nov 18	DKILIT has been renamed APOLLIT
NEWS	32	Nov 25	More calculated properties added to REGISTRY
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NEWS	37	Dec 17	Adis Clinical Trials Insight now available on STN
NEWS	38	Dec 30	ISMEC no longer available
NEWS	39	Jan 13	Indexing added to some pre-1967 records in CA/CAPLUS
NEWS	40	Jan 21	NUTRACEUT offering one free connect hour in February 2003
NEWS	41	Jan 21	PHARMAML offering one free connect hour in February 2003
NEWS	42	Jan 29	Simultaneous left and right truncation added to COMPENDEX, ENERGY, INSPEC

NEWS EXPRESS January 6 CURRENT WINDOWS VERSION IS V6.01a,
CURRENT MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP),

AND CURRENT DISCOVER FILE IS DATED 01 OCTOBER 2002

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FILE 'HOME' ENTERED AT 12:47:58 ON 13 FEB 2003

=> FILE .RECEPTOR
COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
0.21	0.21

FULL ESTIMATED COST

FILE 'MEDLINE' ENTERED AT 12:48:33 ON 13 FEB 2003

FILE 'LIFESCI' ENTERED AT 12:48:33 ON 13 FEB 2003
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=> S LVVYPWTQRF
L1 6 LVVYPWTQRF

=> DUP REM
ENTER L# LIST OR (END):L1
PROCESSING COMPLETED FOR L1
L2 3 DUP REM L1 (3 DUPLICATES REMOVED)

=> D 1

L2	ANSWER 1 OF 3	MEDLINE	DUPLICATE 1
AN	1999026724	MEDLINE	
DN	99026724	PubMed ID: 9809196	
TI	Haemorphin peptides may be endogenous ligands for brain angiotensin AT4 receptors.		
AU	Moeller I; Chai S Y; Smith I; Lew R; Mendelsohn F A		
CS	Howard Florey Institute of Experimental Physiology and Medicine, University of Melbourne, Parkville, Victoria, Australia.. i.moeller@hfi.unimelb.edu.au		
SO	CLINICAL AND EXPERIMENTAL PHARMACOLOGY AND PHYSIOLOGY. SUPPLEMENT, (1998 Nov) 25 S68-71. Ref: 45 Journal code: 7611484. ISSN: 0143-9294.		
CY	Australia		
DT	Journal; Article; (JOURNAL ARTICLE) General Review; (REVIEW) (REVIEW, TUTORIAL)		
LA	English		

FS Priority Journals
EM 199901
ED Entered STN: 19990209
Last Updated on STN: 19990209
Entered Medline: 19990128

=> D 2

L2 ANSWER 2 OF 3 MEDLINE DUPLICATE 2
AN 97407788 MEDLINE
DN 97407788 PubMed ID: 9264537
TI Peroxynitrite-mediated nitration of peptides: characterization of the products by electrospray and combined gas chromatography-mass spectrometry.
AU Yi D; Smythe G A; Blount B C; Duncan M W
CS Biomedical Mass Spectrometry Unit, University of New South Wales, Sydney, Australia.
SO ARCHIVES OF BIOCHEMISTRY AND BIOPHYSICS, (1997 Aug 15) 344 (2) 253-9.
Journal code: 0372430. ISSN: 0003-9861.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals; AIDS
EM 199709
ED Entered STN: 19970922
Last Updated on STN: 19970922
Entered Medline: 19970908

=> D 3

L2 ANSWER 3 OF 3 MEDLINE DUPLICATE 3
AN 94311913 MEDLINE
DN 94311913 PubMed ID: 8037741
TI Isolation of endogenous hemorphin-related hemoglobin fragments from bovine brain.
AU Karelina A A; Philippova M M; Karelina E V; Ivanov V T
CS Shemyakin and Ovchinnikov Institute of Bioorganic Chemistry, Russian Academy of Sciences, Moscow.
SO BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS, (1994 Jul 15) 202 (1) 410-5.
Journal code: 0372516. ISSN: 0006-291X.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 199408
ED Entered STN: 19940825
Last Updated on STN: 19940825
Entered Medline: 19940815

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COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
7.82	8.03

FULL ESTIMATED COST

FILE 'MEDLINE' ENTERED AT 12:56:44 ON 13 FEB 2003

FILE 'LIFESCI' ENTERED AT 12:56:44 ON 13 FEB 2003

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FILE 'BIOSIS' ENTERED AT 12:56:44 ON 13 FEB 2003
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=> S LEU AND VAL AND VAL AND TYR AND PRO AND TRP AND THR AND GLN AND ARG AND PHE
L3 187 LEU AND VAL AND VAL AND TYR AND PRO AND TRP AND THR AND GLN AND
ARG AND PHE

=> DUP REM L3
PROCESSING COMPLETED FOR L3
L4 112 DUP REM L3 (75 DUPLICATES REMOVED)

=> S LEU VAL VAL TYR PRO TRP THR GLN ARG PHE
L5 9 LEU VAL VAL TYR PRO TRP THR GLN ARG PHE

=> DUP REM L5
PROCESSING COMPLETED FOR L5
L6 4 DUP REM L5 (5 DUPLICATES REMOVED)

=> D 1

L6 ANSWER 1 OF 4 MEDLINE DUPLICATE 1
AN 2000171746 MEDLINE
DN 20171746 PubMed ID: 10704729
TI Isolation of the opioid peptide Leu-Val-Val-hemorphin-7 from
bronchoalveolar lavage fluid of a patient with non-small cell lung cancer.
AU Duethman D; Dewan N; Conlon J M
CS Regulatory Peptide Center, Department of Biomedical Sciences, Creighton
University Medical School, Omaha, Nebraska 68178, USA.
SO PEPTIDES, (2000 Jan) 21 (1) 137-42.
Journal code: 8008690. ISSN: 0196-9781.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 200004
ED Entered STN: 20000505
Last Updated on STN: 20000505
Entered Medline: 20000424

=> D 2

L6 ANSWER 2 OF 4 MEDLINE DUPLICATE 2
AN 97309334 MEDLINE
DN 97309334 PubMed ID: 9166749
TI The globin fragment LVV-hemorphin-7 is an endogenous ligand for the AT4
receptor in the brain.
AU Moeller I; Lew R A; Mendelsohn F A; Smith A I; Brennan M E; Tetaz T J;
Chai S Y
CS Howard Florey Institute of Experimental Physiology and Medicine,
Parkville, Victoria, Australia.
SO JOURNAL OF NEUROCHEMISTRY, (1997 Jun) 68 (6) 2530-7.
Journal code: 2985190R. ISSN: 0022-3042.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 199706
ED Entered STN: 19970630
Last Updated on STN: 19970630
Entered Medline: 19970617

=> D 3

L6 ANSWER 3 OF 4 MEDLINE DUPLICATE 3
 AN 96198718 MEDLINE
 DN 96198718 PubMed ID: 8636875
 TI Analysis in gingival crevicular fluid of two oligopeptides derived from human hemoglobin beta-chain.
 AU Makinen K K; Sewon L; Makinen P l
 CS Department of Biologic and Materials Sciences, School of Dentistry, University of Michigan, Ann Arbor, USA.
 NC 5 P60 AR20557 (NIAMS)
 SO JOURNAL OF PERIODONTAL RESEARCH, (1996 Jan) 31 (1) 43-6.
 Journal code: 0055107. ISSN: 0022-3484.
 CY Denmark
 DT Journal; Article; (JOURNAL ARTICLE)
 LA English
 FS Dental Journals; Priority Journals
 EM 199607
 ED Entered STN: 19960719
 Last Updated on STN: 19980206
 Entered Medline: 19960710

=> D 4

L6 ANSWER 4 OF 4 MEDLINE DUPLICATE 4
 AN 81063295 MEDLINE
 DN 81063295 PubMed ID: 6776995
 TI Isolation and structure of several peptides from porcine hypothalami.
 AU Chang R C; Huang W Y; Redding T W; Arimura A; Coy D H; Schally A V
 NC AM 07467 (NIADDK)
 AM 09094 (NIADDK)
 SO BIOCHIMICA ET BIOPHYSICA ACTA, (1980 Oct 21) 625 (2) 266-73.
 Journal code: 0217513. ISSN: 0006-3002.
 CY Netherlands
 DT Journal; Article; (JOURNAL ARTICLE)
 LA English
 FS Priority Journals
 EM 198102
 ED Entered STN: 19900316
 Last Updated on STN: 19970203
 Entered Medline: 19810219

=> D 5

4 ANSWERS ARE AVAILABLE. SPECIFIED ANSWER NUMBER EXCEEDS ANSWER SET SIZE
 The answer numbers requested are not in the answer set.
 ENTER ANSWER NUMBER OR RANGE (1):4

L6 ANSWER 4 OF 4 MEDLINE DUPLICATE 4
 AN 81063295 MEDLINE
 DN 81063295 PubMed ID: 6776995
 TI Isolation and structure of several peptides from porcine hypothalami.
 AU Chang R C; Huang W Y; Redding T W; Arimura A; Coy D H; Schally A V
 NC AM 07467 (NIADDK)
 AM 09094 (NIADDK)
 SO BIOCHIMICA ET BIOPHYSICA ACTA, (1980 Oct 21) 625 (2) 266-73.
 Journal code: 0217513. ISSN: 0006-3002.
 CY Netherlands
 DT Journal; Article; (JOURNAL ARTICLE)
 LA English
 FS Priority Journals
 EM 198102
 ED Entered STN: 19900316
 Last Updated on STN: 19970203

Entered Medline: 19810219

=> LOGOFF HOLD
COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
4.18	12.21

FULL ESTIMATED COST

SESSION WILL BE HELD FOR 60 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 12:59:40 ON 13 FEB 2003

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:SSSPTA1647SXW

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

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NEWS	25	Sep 16	CA Section Thesaurus available in CAPLUS and CA
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NEWS	36	Dec 17	TOXCENTER enhanced with additional content
NEWS	37	Dec 17	Adis Clinical Trials Insight now available on STN
NEWS	38	Dec 30	ISMEC no longer available
NEWS	39	Jan 13	Indexing added to some pre-1967 records in CA/CAPLUS
NEWS	40	Jan 21	NUTRACEUT offering one free connect hour in February 2003
NEWS	41	Jan 21	PHARMAML offering one free connect hour in February 2003
NEWS	42	Jan 29	Simultaneous left and right truncation added to COMPENDEX, ENERGY, INSPEC
NEWS	43	Feb 13	CANCERLIT is no longer being updated

NEWS EXPRESS January 6 CURRENT WINDOWS VERSION IS V6.01a,

CURRENT MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP),
AND CURRENT DISCOVER FILE IS DATED 01 OCTOBER 2002

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* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 14:34:40 ON 13 FEB 2003

=> FILE .RECEPTOR

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	2.31	2.31

FILE 'MEDLINE' ENTERED AT 14:41:29 ON 13 FEB 2003

FILE 'LIFESCI' ENTERED AT 14:41:29 ON 13 FEB 2003
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FILE 'BIOSIS' ENTERED AT 14:41:29 ON 13 FEB 2003
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=> S HEMORPHINS

L1 81 HEMORPHINS

=> DUP REM L1

PROCESSING COMPLETED FOR L1

L2 45 DUP REM L1 (36 DUPLICATES REMOVED)

=> S L1 AND LVVYPWTQRF

L3 2 L1 AND LVVYPWTQRF

=> D 1

L3 ANSWER 1 OF 2 MEDLINE
AN 94311913 MEDLINE
DN 94311913 PubMed ID: 8037741
TI Isolation of endogenous hemorphin-related hemoglobin fragments from bovine brain.
AU Karelina A A; Philippova M M; Karelina E V; Ivanov V T
CS Shemyakin and Ovchinnikov Institute of Bioorganic Chemistry, Russian Academy of Sciences, Moscow.
SO BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS, (1994 Jul 15) 202 (1) 410-5.
Journal code: 0372516. ISSN: 0006-291X.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 199408
ED Entered STN: 19940825

Last Updated on STN: 19940825
Entered Medline: 19940815

=> D 2

L3 ANSWER 2 OF 2 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
AN 1994:394783 BIOSIS
DN PREV199497407783
TI Isolation of endogenous hemorphin-related hemoglobin fragments from bovine brain.
AU Karelin, Andrey A.; Philippova, Marina M.; Karelina, Elena V.; Ivanov, Vadim T.
CS Shemyakin and Ovchinnikov Inst. Bioorganic Chem., Russian Acad. Sci., Moscow Russia
SO Biochemical and Biophysical Research Communications, (1994) Vol. 202, No. 1, pp. 410-415.
ISSN: 0006-291X.
DT Article
LA English

=> s hemorphin and lvvypwtqrf
L4 5 HEMORPHIN AND LVVYPWTQRF

=> dup rem l4
PROCESSING COMPLETED FOR L4
L5 3 DUP REM L4 (2 DUPLICATES REMOVED)

=> d 1

L5 ANSWER 1 OF 3 MEDLINE DUPLICATE 1
AN 1999026724 MEDLINE
DN 99026724 PubMed ID: 9809196
TI Haemorphin peptides may be endogenous ligands for brain angiotensin AT4 receptors.
AU Moeller I; Chai S Y; Smith I; Lew R; Mendelsohn F A
CS Howard Florey Institute of Experimental Physiology and Medicine, University of Melbourne, Parkville, Victoria, Australia..
i.moeller@hfi.unimelb.edu.au
SO CLINICAL AND EXPERIMENTAL PHARMACOLOGY AND PHYSIOLOGY. SUPPLEMENT, (1998 Nov) 25 S68-71. Ref: 45
Journal code: 7611484. ISSN: 0143-9294.
CY Australia
DT Journal; Article; (JOURNAL ARTICLE)
General Review; (REVIEW)
(REVIEW, TUTORIAL)
LA English
FS Priority Journals
EM 199901
ED Entered STN: 19990209
Last Updated on STN: 19990209
Entered Medline: 19990128

=> d 2

L5 ANSWER 2 OF 3 MEDLINE
AN 97407788 MEDLINE
DN 97407788 PubMed ID: 9264537
TI Peroxynitrite-mediated nitration of peptides: characterization of the products by electrospray and combined gas chromatography-mass spectrometry.
AU Yi D; Smythe G A; Blount B C; Duncan M W

CS Biomedical Mass Spectrometry Unit, University of New South Wales, Sydney, Australia.
 SO ARCHIVES OF BIOCHEMISTRY AND BIOPHYSICS, (1997 Aug 15) 344 (2) 253-9.
 Journal code: 0372430. ISSN: 0003-9861.
 CY United States
 DT Journal; Article; (JOURNAL ARTICLE)
 LA English
 FS Priority Journals; AIDS
 EM 199709
 ED Entered STN: 19970922
 Last Updated on STN: 19970922
 Entered Medline: 19970908

=> d 3

L5 ANSWER 3 OF 3 MEDLINE DUPLICATE 2
 AN 94311913 MEDLINE
 DN 94311913 PubMed ID: 8037741
 TI Isolation of endogenous **hemorphin**-related hemoglobin fragments from bovine brain.
 AU Karelin A A; Philippova M M; Karelina E V; Ivanov V T
 CS Shemyakin and Ovchinnikov Institute of Bioorganic Chemistry, Russian Academy of Sciences, Moscow.
 SO BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS, (1994 Jul 15) 202 (1) 410-5.
 Journal code: 0372516. ISSN: 0006-291X.
 CY United States
 DT Journal; Article; (JOURNAL ARTICLE)
 LA English
 FS Priority Journals
 EM 199408
 ED Entered STN: 19940825
 Last Updated on STN: 19940825
 Entered Medline: 19940815

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